ADAM

Adam Equipment

NCSA 20plus

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2.0 INTRODUCTION

2.1 FEATURES

The NCSA 20plus is a note counter that also identifies counterfeit notes by use of MG (Magnetism) and UV (Ultraviolet).

The main features include:

- Easy Operation & Rugged construction
- BATCH and ADD function
- Magnetism detection
- Ultraviolet detection
- Chain and Half note detection
- Alarm Indication
- Individual error Indications
- Customer display unit
- Carry Handle

2.2 *TECHNICAL SPECIFICATIONS*

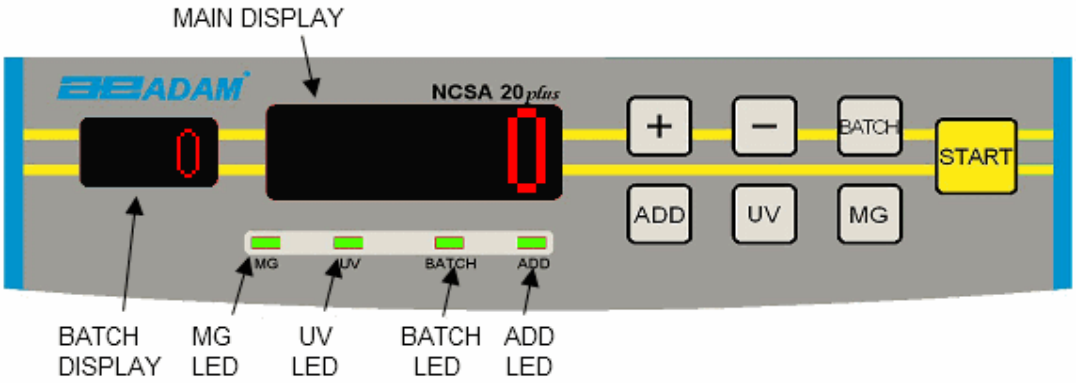
- Dimensions - 256mm x 295mm x 182mm (w x d x h)
- Countable banknote size - 50 x 100 to 90 x 170mm
- Net weight - 5.7kg
- Counting speed >900pcs per minute
- Power supply - 220VAC @ 50Hz
- Counting display - 4 x LED digits on Main display
- Counting display - 3 x LED digits on BATCH display

3.0 INSTALLATION

3.1 UNPACKING

- Unpack the Note counter carefully from the packaging.
- If required plug the customer display into the socket at the rear.
- Plug the Mains power lead into the socket at the rear and switch ON.
- The counter will bleep, the wheels will turn briefly, the “MG” and “UV” detection plus their LED’s will be on, and the Main display will show 0.

3.2 KEY AND PANEL DESCRIPTION



[START]	Press the **[START]** key to continue checking following the detection of a counterfeit note. It can also be used to enter the parameters for the MG and UV set up and BATCH number.
[BATCH]	Press the **[BATCH]** key to enter the BATCH mode which enables you to select the required quantity of notes to be counted.
[ADD]	Press this key to enable accumulation of the counted notes.
[+]	Press this key to increase the quantity in the BATCH display. It can also be used to select settings in the parameter section.
[-]	Press this key to decrease the quantity in the BATCH display. It can also be used to select settings in the parameter section.
[MG]	Press this key to select detection using the Magnetism sensor.
[UV]	Press this key to select detection using the Ultra Violet sensor.

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4.0 OPERATION

4.1 COUNTING FUNCTION

To count the notes place them in between the guides at the rear of the machine. The sensor will detect the notes and feed them through displaying the number of notes counted on the Main Display.

4.2 BATCH FUNCTION

The BATCH function allows you to count a pre determined number of notes.

When in BATCH mode the BATCH LED will light up.

Press the [BATCH] key and the BATCH display will show 100, use the [+] key to increase the amount by 1, and the [-] key to decrease the amount by 10 to the figure that you require for each BATCH.

Place the notes into the guides at the rear of the machine and the counter will feed through the required amount and stop. The Main display should display and match that of the BATCH display with the correct amount of notes being in the holder at the front of the machine.

When the notes are removed the counting automatically resumes and feeds through the remaining notes until the required figure is met again. Remove the second BATCH and continue until all of the notes are counted.

If there are not enough notes to reach the required amount for a BATCH the Main display will display a flashing figure of how many notes have been counted so far. Place more notes into the machine to continue until the BATCH figure is reached.

Press the [BATCH] key to return to normal counting and the LED will go out.

4.3 ADD FUNCTION

The ADD function allows you to accumulate and show a total number of notes that are being counted as well as a count for each separate counting process.

When in ADD mode the ADD LED will light up.

Press the [ADD] key and the BATCH display will show 0.

Place the notes into the guides at the rear of the machine and the counter will feed the notes through. The Main display and the BATCH display will both show the same amount of notes that have been counted. The counter will continue to work like this when more notes are added to the machine.

When the notes are removed from the holder at the front and the next amount of notes are placed into the machine the BATCH display will reset to 0. Once the notes have been fed through the BATCH display will show the quantity of this last count only and the Main display will show the total of the two counts. Continue like this until all of the notes are counted. When finished the Main display will show you the total of all counting processes that have been made.

The BATCH display will always show the last quantity of notes counted from when any previously counted notes have been removed from the holder at the front of the machine.

Press the [ADD] key to return to normal counting and the LED will go out.

Note: ADD and BATCH can be enabled together.

In this case the counter will always stop when the required quantity is met and then continue when the notes are removed from the holder at the front. The Main display will accumulate all countings and give a total count at the end and the Batch display will show the required Batch quantity.

4.4 DUBIOUS NOTE DETECTION

The Magnetism (MG) and Ultraviolet (UV) functions are automatically enabled on Power up, these functions detect counterfeit notes as the counting process is performed.

The MG and UV LED's will be on.

The degree of sensitivity for these can be set by the USER to customise how they work.

Please see section 5.1 for more details.

When a counterfeit note is detected by the MG sensor the counting process will stop, the counter will BLEEP and the error message E3 will be displayed until the note is removed from the holder. Remove the counterfeit note and press [START] to continue counting.

When a counterfeit note is detected by the UV sensor the counting process will stop, the counter will BLEEP and the error message E2 will be displayed until the note is removed from the holder. Remove the counterfeit note and press [START] to continue counting.

The last note in the holder will always be the counterfeit one.

The MG and UV functions can be de activated by pressing the [MG] and/or [UV] key once whereby the LED's will go off.

Chain and half note detection are also enabled and have error codes to determine which type of detection has been made.

When a detection for any of these have been made please note that the faulty note will still have been included in the total count on the Main display.

Remove the faulty note and press [START] to resume counting.

Please see error code table in section 6.2 for more details.

5.0 SETTING THE SENSITIVITY LEVEL

Press the [START] key for 3-5 seconds to enter the Parameter setting section.

Press the [+] key to select the parameter and the [-] key to change its setting.

Once settings have been made, press the [START] key to return to normal counting.

5.1 PARAMETER SETTING TABLE

CODE	FUNCTION	AVAILABLE SETTINGS	DEFAULT
OP-A	**UV SENSITIVITY**	OFF AND 1-10 1 = LOWEST 10 = HIGHEST	5
OP-B	**MG SENSITIVITY**	OFF AND 1-10 1 = LOWEST 10 = HIGHEST	5
OP-D	**SIZE DETECTION**	YES NO	YES
OP-E	**AUTOMATIC OR MANUAL**	YES = AUTOMATIC NO = MANUAL	YES
OP-U	**INCLUDE DUBIOUS NOTE IN TOTAL**	YES NO	YES

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6.0 ERROR MESSAGES, CODES AND SOLUTIONS

6.1 SENSOR ERROR TABLE

MESSAGE	ERROR
C-1	START SENSOR PROBLEM
C-2	BATCH SENSOR PROBLEM
C-3	LEFT SIDE SENSOR PROBLEM
C-4	RIGHT SIDE SENSOR PROBLEM
C-5	UV SENSOR PROBLEM
C-6	SPEED SENSOR PROBLEM
C-7, C-8,C-9	MG SENSOR PROBLEM

6.2 BANK NOTE ERROR TABLE

CODE	ERROR	SOLUTION
E-1	HALF NOTE DETECTED	REMOVE NOTE AND PRESS [START]
E-2	DUBIOUS NOTE DETECTED BY UV SENSOR	REMOVE THE NOTE AND PRESS [START], CHECK THE UV SENSITIVITY SETTING
E-3	DUBIOUS NOTE DETECTED BY MG SENSOR	REMOVE THE NOTE AND PRESS [START], CHECK THE MG SENSITIVITY SETTING
E-5	DUBIOUS NOTE DETECTED BY SIZE DETECTION SENSOR	REMOVE THE NOTE AND PRESS [START]
E-9	DUBIOUS NOTE DETECTED BY CHAIN NOTE DETECTION SENSOR	REMOVE THE NOTE AND PRESS [START]

If any of the error messages appear please check to ensure the sensors are clean and the areas around them are clear. Clean with a soft cloth and dust the area with a brush. If the problem persists please contact your dealer.

An adjustment can be made to suit the thickness of the note being counted by turning the special spring tensioned screw located under the note tray at the rear of the counter.

Turn this screw clockwise for a thinner note and anti clockwise for a thicker note.

WARRANTY INFORMATION

Adam Equipment offers Limited Warranty (Parts and Labour) for the components failed due to defects in materials or workmanship. Warranty starts from the date of delivery.

During the warranty period, should any repairs be necessary, the purchaser must inform its supplier or Adam Equipment Company. The company or its authorised Technician reserves the right to repair or replace the components at any of its workshops depending on the severity of the problems. However, any freight involved in sending the faulty units or parts to the service centre should be borne by the purchaser.

The warranty will cease to operate if the equipment is not returned in the original packaging and with correct documentation for a claim to be processed. All claims are at the sole discretion of Adam Equipment.

This warranty does not cover equipment where defects or poor performance is due to misuse, accidental damage, exposure to radioactive or corrosive materials, negligence, faulty installation, unauthorised modifications or attempted repair or failure to observe the requirements and recommendations as given in this User Manual. Additionally rechargeable batteries (where supplied) are not covered under warranty.

Repairs carried out under the warranty does not extend the warranty period. Components removed during the warranty repairs become the company property.

The statutory right of the purchaser is not affected by this warranty. The terms of this warranty is governed by the UK law. For complete details on Warranty Information, see the terms and conditions of sale available on our web-site.

CE

Manufacturer's Declaration of Conformity

This product has been manufactured in accordance with the harmonised European standards, following the provisions of the below stated directives:

Electro Magnetic Compatibility Directive 2004/108/EC

Low Voltage Directive 2006/95/EC

Adam Equipment Co. Ltd.

Bond Avenue, Denbigh East

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United Kingdom

FCC COMPLIANCE

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. The equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Shielded interconnect cables must be employed with this equipment to insure compliance with the pertinent RF emission limits governing this device.

Changes or modifications not expressly approved by Adam Equipment could void the user's authority to operate the equipment

WEEE COMPLIANCE

Any Electrical or Electronic Equipment (EEE) component or assembly of parts intended to be incorporated into EEE devices as defined by European Directive 2002/95/EEC must be recycled or disposed using techniques that do not introduce hazardous substances harmful to our health or the environment as listed in Directive 2002/95/EC or amending legislation. Battery disposal in Landfill Sites is more regulated since July 2002 by regulation 9 of the Landfill (England and Wales) Regulations 2002 and Hazardous Waste Regulations 2005. Battery recycling has become topical and the Waste Electrical and Electronic Equipment (WEEE) Regulations are set to impose targets for recycling.

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ADAM EQUIPMENT is an ISO 9001:2008 certified global company with more than 40 years experience in the production and sale of electronic weighing equipment.

Adam products are predominantly designed for the Laboratory, Educational, Health and Fitness, retail and Industrial Segments. The product range can be described as follows:

-Analytical and Precision Balances

-Compact and Portable Balances

-High Capacity Balances

-Moisture analysers / balances

-Mechanical Scales

-Counting Scales

-Digital Weighing/Check-weighing Scales

-High performance Platform Scales

-Crane scales

- Health and Fitness Scales

-Retail Scales for Price computing

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